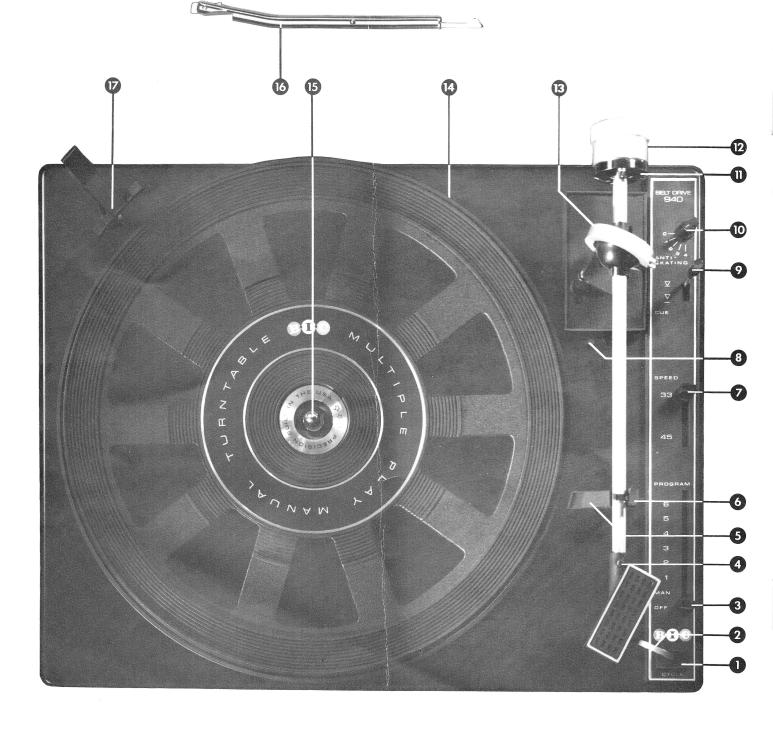


Owner's Manual Belt Drive Model 940 | Made in U.S.A.





Features of B·I·C Model 940 Multiple Play Manual Turntable

- Cycle button—feather touch control activates all turntable functions
- Tonearm finger lift—humanengineered for positive, secure manual handling of tonearm.
- Program—selects manual or automatic operation, shut-off and number of plays.
- 4. Cartridge shell retaining screw—locks shell firmly in place.
- 5. Tonearm rest—extended for stylus and cartridge protection.
- Tonearm lock—prevents damage during transport or accidental jarring.
- 7. Speed selector—shifts drive belt for 33½ rpm or 45 rpm rotation.
- 8. Tonearm set-down adjustment adjusts set-down position of stylus at edge of record.
- Cueing lever—initiates safe, damped lowering or raising of tonearm or can be used as pause control
- Anti-skate force adjustment knob
 —sets corresponding anti-skate force.
- Tracking force indicator—sets desired tracking force from 0 to 4 grams.
- Isolated tonearm counterweight permits dynamic zero balancing of entire tonearm, while insuring maximum damping.
- Precision gimbal bearings—for minimal horizontal and vertical pivotal friction.

- 12" diecast platter—solid, onepiece precision casting has computer optimized mass.
- 15. Removable manual spindle.
- Automatic spindle—supports records during automatic record play.
- Record support—platform stabilizes records placed on spindle for safe two-point support during automatic play.
- 18. Elastomer suspension mounts —correlated to the mass of the turntable assembly for maximum isolation from external shock in all planes.
- 19. Synchronous 24 pole motor—operates at slow, vibration-free 300 rpm.

(18 and 19 pertain to underside of unit not shown)

The B-I-C Multiple Play Manual Turntable represents the culmination of many years of engineering design effort directed towards the development of a superior manual turntable equipped with automatic multiple record playing facilities. Its drive system utilizes a slow speed (300 rpm) 24 pole synchronous motor. and belt drive, previously found only in fine manual turntables. This results in significantly reduced rumble, wow, and flutter since idler-pullevs are totally eliminated. The Model 940 maintains precise speed over a wide range of power line voltages, since its motor's rotational rate is determined solely by power line frequency (50 Hz or 60 Hz).

The tonearm system features minimal friction bearings, low mass and resonance, stylus force, and tonearm balancing and an isolated counterweight to maintain optimal tracking force from the first to last record played. Another exclusive feature, a pivotable cartridge shell, permits easy cartridge installation.

The programmer system eliminates the inherent shortcomings of conventional turntables because its action is independent of erratic spindle-sensing mechanisms or dimensional variations of records. The programmer allows for totally manual play or automatic play of single records, repeat playing of single records, programmed play of up to six records, or automatic play of multiple records with programmed repeatability of the last record, all by means of a single touch button.

The suspension system has been designed to prevent mechanical or acoustic vibration coupling, thereby permitting you to take full advantage of the wide dynamic musical range now available in modern disc recordings.

Index

Set-Up Procedures

Operating Procedures

There are many playing and operating options built into your B·I·Č Multiple Play Manual Turntable, plus a number of unique control features. These are summarized on this page - and specific operating instructions for the various playing options are detailed on the pages indicated. Normal maintenance procedures are also described and listed, along with a set of specifications which will be of interest to the audio enthusiast.

	PAGE
How to properly unpack the unit	5
Note the accessories supplied	5
nstalling the turntable on the base	5
Proper mounting of the cartridge in the tonearm shell	6
nstalling the counterweight	7
Adjusting proper tracking and anti-skate forces	8
nstallation of audio cable and ground connection	8
Connecting to AC power	9
Manual play of a single record	9
Programmed repeat play of a single record	10
Automatic play of a single record	10
Automatic play of multiple records	10
Multiple play of records plus repeat of last record	11
Jse of cueing and pause control	11
Adjustment of stylus set-down point and tonearm height	11
urntable removal	12
Orive belt installation	12
ubrication instructions	13
ips on record care	13
Spare parts list	13
Accessories	13
General specifications	14
rouble-shooting hints	15

Set-Up Procedures





Unpacking the Unit

Remove the unit from the bottom styrofoam filler by grasping the unit plate at the points indicated on the top cardboard packing piece. DO NOT lift the unit by grasping the tonearm. Whenever possible, the packing material should be retained in the event reshipment is necessary. In any event, do not discard the packing material until all of the accessories described below are accounted for.

The top styrofoam filler contains the following:

- 1. A short manual spindle for playing single records.
- 2. A long automatic spindle for playing up to six records automatically.
- 3. Tonearm counterbalance weight.
- 4. A manual 45 rpm adaptor for playing large hole records, one at a time.
- 5. Cartridge mounting hardware; this contains the various screws that are needed for mounting the cartridge in the pickup head.
- 6. Transit wing nuts (2).
- 7. Extra tonearm shell lock screw.
- 8. Screwdriver

Also, make certain that all rubber bands securing the line cord, audio cables, the tonearm tie, etc., are removed along with all other packing pieces.

Packing pieces are installed between the unit plate and turntable. They must also be removed and, if possible, should be retained as they are a very important part of the packing if the unit is ever shipped.

The audio cable is packed in a wedge on the right side of the unit.

Installing the Unit on the Base

Both the B20 Base and WB20 Base are supplied with a bottom safety cover which eliminates any possibility of mechanical hazard. Comprehensive instructions are included with each base.

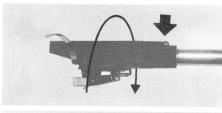
PROPER INSTALLATION IS EXTREMELY IMPORTANT. DO NOT INSTALL THIS UNIT ON ANY DEVICE OTHER THAN THE OFFICIAL B20 OR WB20 BASES.

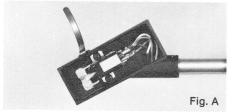
Cartridge Installation and Adjustment

In order to take advantage of the many features of the B-I-C tonearm, it is extremely important that the cartridge be properly installed and the various adjustments pertaining to the cartridge be made. These are described below.

Rotation of the Cartridge Head

All turntables use some form of cartridge slide or clip to pre-mount the cartridge and fasten it to the arm. Electrical contact for transmission of the minute cartridge signals depends on four surface-tosurface contacts, any one of which may cause intermittent signals or open circuits. The B·I·C 940 employs a rotating pickup head which is rigidly locked in place by a set screw located on the top of the tonearm. (Fig. A) Remove the set screw and rotate the pickup head counter clockwise. BE SURE NOT TO LOSE OR MISPLACE THE SET SCREW, IN THE EVENT THIS OCCURS, AN EXTRA SCREW HAS BEEN SUPPLIED. THE CARTRIDGE HEAD IS NOT REMOVABLE AND DAMAGE CAN OCCUR IF IT IS PULLED FORWARD.

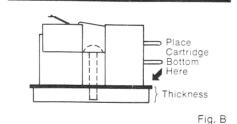




Mounting Cartridge in Head

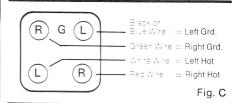
The B·I·C 940 is supplied with several sets of varied length cartridge mounting screws. It is important that the mounting screws used are the correct length. In most cases the mounting screws supplied by the cartridge manufacturer should be used. However, if you do not have these screws, proceed as follows:

From the sets of screws supplied with the B·I·C 940, select the screws that appear to be the proper length to pass through the cartridge mounting bracket. Place one screw through the bracket. To make certain it is not too long, place the bottom of the cartridge as shown in the diagram below and note whether the screw projects below the simulated pickup head mounting bracket. If too long, use the next shorter screw. When the correct length has been selected, use a small screwdriver to secure both screws to the pickup head (Fig. B).



Wiring Cartridge

The chart (Fig. C) illustrates the markings at the rear of a typical cartridge. MAKE CERTAIN that the cartridge is wired as per the following diagrams.



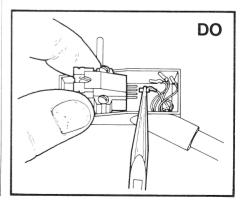
CAUTION—Never solder directly to the cartridge. DAMAGE WILL OCCUR.

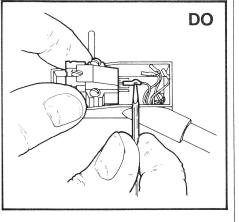
IMPORTANT WARNING

To insure maximum tracking capability, the tonearm wiring harness containing the cartridge connectors is made of special light gauge low friction wire. Although the connections are carefully made, special care must be taken to avoid breaking the press-on cartridge connectors while installing the cartridge.

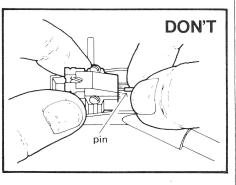
Installing

Grasp the *connector* in the *center* with a pair of tweezers or needle nosed pliers. Carefully press the connector on to the pin of the cartridge. If you have difficulty sliding it on all the way, place a small screwdriver at the point shown in the diagram and gently push the connector in place.



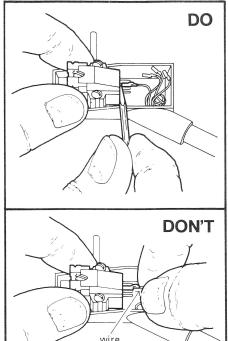


Do not attempt to install the connector with your fingers. Tweezers or long nosed pliers must be used. The wire or where the wire joins to the connector *must not* be touched.



Removing

Place a screwdriver between the cartridge connector and the rear of the cartridge. Slide the press-on connector off the cartridge pin. Do not use tweezers or long nosed pliers to remove the cartridge connector. If you attempt this, the removal tool may slip from the connector and fracture one of the wires.



WE STRESS THAT IF THE INSTRUCTIONS ARE NOT CAREFULLY FOLLOWED AND THE CARTRIDGE CONNECTORS ARE BROKEN, THE REPAIR OF THE UNIT WILL NOT BE COVERED UNDER WARRANTY.

Cartridge Grounding Strap

The tonearm ground of the 940 is carried up to the metal plate in the tonearm head. With some cartridges a ground loop can occur—if this difficulty is encountered, remove the grounding strap from the cartridge. Consult the cartridge manufacturers instructions regarding removal of the ground strap.

Re-positioning Pickup Head

After the cartridge has been correctly installed in the head, rotate the shell clockwise so that the hole which receives the screw becomes visible. Replace the set screw and tighten firmly.

Counterweight Installation

The counterweight should be installed on the tonearm in the following manner. Place the counterweight at the end of the tonearm, with the numbers facing forward, and rotate it in a counter-clockwise direction (Fig. D). The counterweight must be installed and taken off the tonearm by a winding action *ONLY*, not by directly pushing or pulling. Rotate the platter in a clockwise direction approximately 5 turns to make certain that the mechanism is free and the unit is not in cycle. Also, make certain that the cueing lever is in the play position. With the tonearm released from its locked position

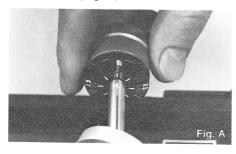




and anti-skate knob set to "0" (zero), continue to rotate the counterweight until the tonearm is perfectly balanced, floating parallel to the turntable. When this is accomplished, the tonearm will be approximately level to the extension of the tonearm pickup rest.

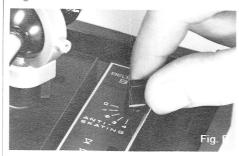
Setting VTF = Vertical Tracking Force (Stylus Pressure)

The top of the tonearm tube contains a reference line. Rotate the black VTF disc. (not the entire counterweight), until "0" lines up with its reference line. Rotate the entire counterbalance weight by grasping the knurl at the rear in a counterclockwise direction. The VTF disc will move with the counterbalance weight. Turn the counterweight until the VTF recommended by the cartridge manufacturer corresponds with the reference line. In order to set the VTF higher than 2 grams, the counterbalance weight will have to be rotated more than one full turn and the numbers in red indicate the pressure (Fig. A).



Setting Anti-Skate Force

Set the anti-skating force knob to the number of grams recommended by the manufacturer of your cartridge (Fig. B). The forces shown on the control panel are calibrated for *elliptical styli*. For conical styli, set the knob approximately 20% less than for an elliptical type. Example: If VTF is 2½ grams set anti-skate for 2 grams.



Connecting Your B-I-C Model 940 Turntable to an Audio Amplifier

Audio Cable

The Model 940 is supplied with a double ended color coded audio cable. This cable was selected to provide minimum capacitive loading effects on high frequency response of your cartridge. This is especially important if your cartridge is capable of playing CD-4 discrete four channel recordings. If longer cables are required, make certain they are of a low capacity type or check with the manufacturer of your cartridge for his recommendations regarding cable type and length limitations.



Unravel the cable and insert one of the plugs into the phono socket marked "R" on the underside of the unit. Insert the other color plug into the socket marked "L". Make certain the plugs are pressed all the way in (Fig. C).

Feed the cable, line cord and black ground lead through the base as shown on the base instruction sheet.

Note the color of the plug going to "R" on the unit and insert the same color at the other end into the right channel of the amplifier. Follow the same procedure for the left channel.

Amplifier Connections

If you are using a magnetic phono cartridge, insert the phono plugs into the space provided at the rear of the amplifier marked "phono low level" or "phono MAG" (Fig. D).



If you are using a ceramic cartridge, insert the audio cable plugs into the high level input of the amplifier "phono CER."

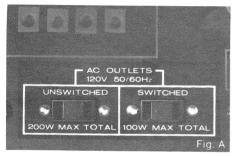
The ground wire supplied with the turntable should be connected to a suitable "ground" point on the metal chassis of your amplifier. Most amplifiers provide a convenient terminal

Operating Procedures

on the rear panel for this purpose. Failure to ground this wire will result in an inordinately high hum level when attempting to play records.

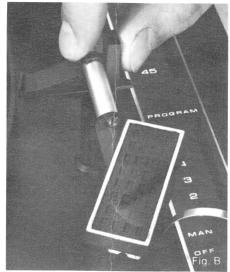
Power Cord Connection

Your model 940 is designed to operate from a supply voltage of 105 to 130 VAC 60 Hz (50 Hz adapter available). Connection of the power cord to a higher source of voltage or to a DC power source will cause immediate damage to the unit and is not covered by the warranty. If you use this product in areas powered by 220 or 240 volts, consult your dealer for proper instructions regarding adaptation of the unit for such use

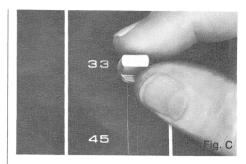


With the programming lever set to the OFF position, plug the power cord into a suitable outlet. Many amplifiers provide convenient receptacles on their rear panels, to which the turntable power cord may be connected (Fig. A). Often, these receptacles are labelled "SWITCHED" and "UNSWITCHED". Choose an "UNSWITCHED" receptacle for powering the turntable. By so doing, if you shut off the amplifier, the turntable will continue to rotate until its selected programming sequence is completed.

Before attempting to play records, make certain that the tonearm retaining lock (Fig. B) on the tonearm rest is loosened by moving it to the right with forefinger. Most cartridges are fitted with a stylus guard or protective cover. Make certain this cover is removed or pivoted so as to expose the stylus tip.

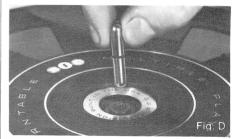


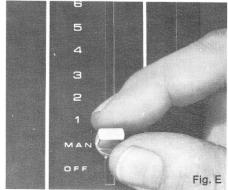
Set the speed selector lever (Fig. C) for the type of record you wish to play. The Model 940 plays 12" 33 rpm records when the speed selector lever is set for 33; 7" 45 rpm records when set to 45. When playing a 45 rpm record, install the manual 45 rpm adaptor over the manual spindle, which should be placed in the center hole of the turntable. An optional multiple play 45 rpm adaptor is available. Place this adaptor over the automatic spindle to play up to six records. (See page 10).



Manual Play of a Single Record

Insert the manual spindle (Fig. D) and move the programmer control knob (Fig. E) to the manual position. The turntable should begin to rotate at the selected speed. Carefully lift the tonearm by means of the tonearm finger



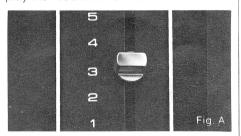


lift, and place it on the record. After the record has been played, the tonearm will return to the tonearm rest and the unit will shut off. You may also use the cueing lever while playing single records manually. For use of this feature, refer to page 11. If you wish to discontinue playing in the middle of a record, depress the cycle button. The tonearm will return to its rest. and the unit will shut off. Alternatively. you may lift the tonearm from the record and manually return it to the rest. The turntable should then be turned off by moving the programming lever to the OFF position.

DO NOT MOVE THE PROGRAMMER WITH THE TONEARM ON A RECORD.

Repeat Play of a Single Record

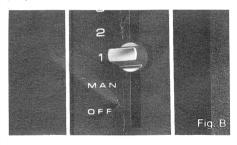
Here is another B-I-C feature: If you would like to hear one twelve-inch record played three times (Fig. A), simply advance the programmer to the number 3. With the tonearm on the pickup rest, depress the cycle button and the unit will play the record three times and shut off.



Automatic Play of a Single Record

To play a single record automatically, advance the programmer to the number 1 setting and depress the cycle button (Fig. B) This cycle button initiates totally automatic operation. The arm rises, comes to the edge of the record, and is gently lowered.

At the end of record play, the tonearm returns to the rest and the machine automatically shuts off. If you move the programmer to the number 1 setting and place the tonearm on the record, the unit will not shut off at the end of the record, but will continue to play the record one more time.



Turning Off the Unit

The unit can be turned off at any time in one of two ways:

The cycle button can be depressed to advance the programming cycle to the next lower program number until the "MAN" position is reached. Depressing the cycle button once again will cause the tonearm to return to the tonearm rest and complete shut off of the turntable.

Alternatively, the tonearm can be lifted manually by means of the tonearm finger lift and returned to the tonearm rest. The programming lever should then be moved to the OFF position to turn off the unit (Fig.C).



Automatic Multiple Record Play

Your Model 940 can be used to play multiple records automatically, but with important differences when compared with units which are commonly categorized as "automatic turntables".

The B·I·C mechanism is exceptionally simple, with a minimum number of moving parts.

Records are handled with two-point support, as opposed to the umbrellatype single-support system commonly used. The B·I·C system stabilizes the records and insures reliable dropping. There are other automatic turntables that use a two-point record support system, but the 940 differs in that automatic shut-off is completely independent of the center automatic spindle. This eliminates the critical sensing nature of the spindle and is one of the reasons for the reliable changing capabilities of the B·I·C unit.

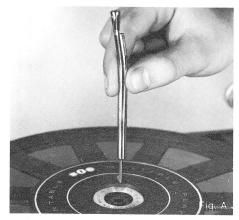
This design also makes it much simpler to accommodate records with variations in the center hole diameter or thickness.

Installing Multiple Play Spindle

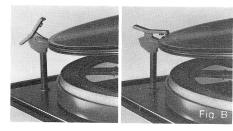
To play up to six records in sequence, remove the short manual spindle from the turntable.

Place the multiple play spindle in the center of the turntable. Rotate

it until it lines itself up with the keyway in the center of the turntable. Press the spindle firmly down until a distinct "click" is heard (Fig.A).



Count the number of records you are putting on the multiple play spindle and place the record hold-down clip (Fig. B) on the platform in the up position prior to installing records. When the records are sitting on the shelf of the spindle and the edge of the record platform, lower the hold-down clip to stabilize the records in place.



Move the program selector control knob to the number corresponding to the records you have placed on the spindle. Depress the cycle button and the tonearm will play all of the records automatically. When the last record has

played, the unit will shut off. For example, to play four records, the four records are placed on the automatic spindle and the programmer is advanced to 4. The cycle button is depressed, the four records play and the programmer determines when it is to shut off

Multiple Play Plus Repeat of the Last Record

If you wish to play less than six records and would like the last record to be repeated one or more times, simply move the program selector knob to the number of records plus the number of additional plays desired. For example, if three records are on the spindle and you wish the last record to play once and repeat three times, simply set the program control to the number 6 (Fig. C).



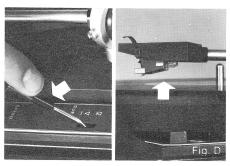


Removing Multiple Play Spindle

All records must first be removed. To remove the records, tilt the stack down and away from the record platform and lift up. The automatic spindle can then be removed by grasping and lifting straight up.

Cueing and Pause Control

The cueing lever (Fig. D) is used to raise or lower the tonearm during automatic or manual play. Moving the control forward raises the tonearm. pushing it back lowers the tonearm.



Stylus Set-Down Adjustment and Tonearm Height

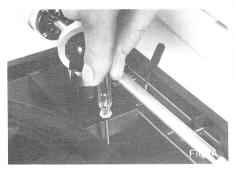
Your Model 940 was carefully assembled and all necessary adjustments were performed at the factory. There are, however, two minor adjustments that may have to be made to suit your particular cartridge. One adjustment controls the point at which the stylus lands upon the record's surface. All records contain a groove guard (Fig. E). Ideally, the stylus should land inside the groove guard just before the recorded portion of the record (Fig. E). The tone-



Fig. E

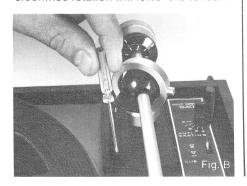
Maintenance and Record Care

arm set-down adjusting screw (Fig. A) controls the exact point of set-down. To re-position the tonearm to land inside the groove guard, turn the adjusting



screw (Fig. A) until tonearm is at the correct position.

In rare instances, when very deep or very shallow cartridges are used, adjustment may have to be performed to the pickup height. This adjustment controls the amount of lift to the tonearm in both automatic play and manual cueing. The stylus should lift high enough to clear six records and the tonearm rest extension. If adjusted too high, the top of the shell will touch the bottom record on the stack. Turning the adjusting screw (Fig. B) counterclockwise will raise the tonearm; clockwise rotation will lower the tonearm.



Turntable Removal

It is not necessary to remove the turntable mat in order to remove the turntable. The turntable assembly is held in place by a nylon retaining clip located in the center. Remove the spindle and lift one edge of the retaining clip with a screwdriver until the edge of the clip is lifted free (Fig.C). Once this has been done proceed in



the same manner with the other edge of the clip. remove, and lift off the turntable (Fig. D).

A rubber "O" ring and washer may come off with the turntable. Re-insert the



"O" ring and washer onto the turntable spindle. Be sure the "O" ring is atop the washer. Do not lose these parts! When the turntable is re-installed, the rubber "O" ring and washer (already on the spindle) will automatically align with the bottom of the turntable hub (Fig. D).

Belt Installation

When the turntable is removed. the drive belt will come off the rim of the To re-install the belt onto the platter, place the belt on the drive rim of the turntable (Flo. El. Grasp the belt and engage either one of the two belt ning studs projecting from the Do not twist belt. On the top surface of the platter there are two indicators (Fig.F). These indicators line up with the two studs. When re-installing the platter, locate the turntable so that the indicator for the stud retaining the belt is facing your left (parallel to front of machine—Fig. F). Make certain the speed control is set at the 33 position. Place the turntable on the spindle and rotate the turntable clockwise one full turn. The belt will automatically engage the motor pulley.





Re-install the Turntable Retaining "C" Clip

The turntable "C" clip has a projection on both the top and bottom, THIS PROJEC-TION MUST FIT FULLY INTO THE SLOT OF THE TURNTABLE SPINDLE (Fig. F. page 12).

Lubrication

All pivot points and bearing surfaces have been lubricated at the factory and will seldom, if ever, require further attention. Should lubrication be required, we recommend this be performed by B·I·C or one of its authorized service stations. If you prefer doing this yourself we recommend vou purchase a Technical Service Manual which provides full details and explicit instructions on this entire subject.

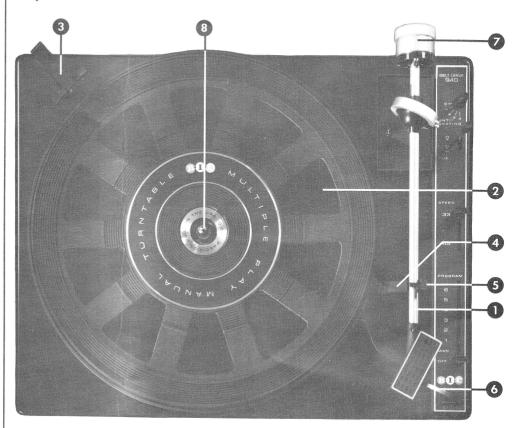
Record Care

Keep the cartridge and stylus clean and replace if worn. Periodically have the stylus inspected by your dealer.

Return all records to their protective sleeves and jackets. Do not leave records on the turntable for long periods, if not in use.

Store vertically rather than horizontally or flat. If possible, store records at average room temperatures. Do not permit them near or in contact with heat producing devices, such as radiators. electronic equipment, amplifiers, etc. Excessive temperatures tend to cause warpage of records. Avoid handling the groove surfaces as this will deposit a film of oil on the grooves. Hold records by their outer edges when mounting or removing from turntable to keep records clean

Spare Parts



Accessories

A-2 45 rpm automatic adaptor (optional)

A-3 Automatic spindle

A-4 Rotating manual spindle (optional)

A-5 50 cycle pulley for 940

A-7 Elastomer drive belt

Part Number and Description

1. 10-079-01 Tonearm assembly

2. 10-043-07 Turntable, mat & insert assembly

3. 10-101-01 Record support assembly

4. 10-152-02 Tonearm rest assembly

5. 37-355-01 Tonearm rest lock

6. 38-386-01 Finger lift

7. 10-145-01 Counterbalance weight

8. 39-468-01 Manual spindle

Items Not Shown

37-143-01	T/T retaining clip
37-175-01	"O" ring
37-539-01	45 rpm manual adaptor
17-113-03	Stereo audio cable
37-540-01	Isolation mount
39-602-01	60 cycle pulley

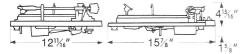
Spare Parts

To insure positive identification of your unit when ordering spare parts, please quote all the information printed on the foil label underneath the unit plate or on the outside of the packing carton. Also quote the part number if listed, the color, the voltage and the power supply frequency.

Please address inquiries for spares and service to your dealer.
In case of difficulty, send your inquiry to:

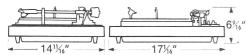
British Industries Company Westbury, New York, 11590

MINIMUM CABINET DIMENSIONS UNIT OFF BASE



1" additional is required above the unit, for removal of automatic spindle, when placed in a confined space.

UNIT ON BASE WITHOUT DUST COVER



UNIT ON BASE WITH DUST COVER



UNIT ON BASE WITH DUST COVER RAISED

Left to right	 17%''
Front to rear	 20"
Total height	 16"
Dust Cover height	 41/4"

Dimensions are with an automatic spindle.

Official Bases

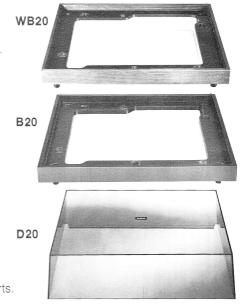
The two bases available for the B-I-C Turntables are as unique in design as the machines themselves. Their low-profile disguises the sturdiness of construction throughout. Both bases include the exclusive "seethrough" bottom safety cover which provides maximum protection from mechanical and electrical hazards.

WB20 Wood Base Solid oiled walnut furniture finish. Unitized construction.

B20 Molded Base Molded base with black matte finish for easy care and cleaning. Unitized construction.

Official Dust Cover

D20 The B·I·C Dust Cover fits the B20 and WB20 Bases in the 900 series. Its unique construction and design eliminates hinges and other unsightly supports.



General Specifications

The Model 940 is wired for 117 volts, 60 cycle operation in the United States. The unit is compatible with 50 cycle operation and can be easily converted. On the underside of all units is a code tag which lists electrical specifications. The Model 940 requires a 50 cycle pulley. This part is available through your dealer or from British Industries Co. Detailed information is supplied with each 50 cycle kit. For operation on 220 volts, contact your local dealer or service center for a suitable step-down transformer and conversion.

Cartridge Mounting Screws The Model 940 is supplied with several pairs of machine screws, No. 3-48 American standard machine screws.

Belt The drive belt used is made to exact specifications for maximum performance. If ever a new belt is required, we highly recommend that you purchase the genuine, exact factory replacement as inferior replacement belts will seriously downgrade the performance of your unit. This is also available through your local dealer or British Industries Co.

Motor B•I•C Turntables incorporate a 24-pole, 300 rpm motor of outstanding characteristics. The design nature of this motor insures many

trouble-free hours of listening pleasure and very seldom, if ever, requires maintenance or lubrication.

Speed The Model 940 will play records recorded at 33½ and 45 rpm.

Record Size Twelve inch 33½ rpm records may be stacked and played automatically on the automatic spindle supplied with the unit. Seven inch 45 rpm records may be stacked and played automatically on the optional automatic 45 rpm adaptor, Stock No. A-2. All other size 33½ and 45 rpm records can, of course, be played manually.

Maximum Number of Records B-I-C Turntables accept and play up to six records automatically.

Cartridge B:I•C Turntables will accept any cartridge manufactured at the time of this writing, and will track at the lightest force recommended by cartridge manufacturer.

Cable Capacitance The *total* cable capacitance (all wiring) of the Model 940 is less than 125 pf and, therefore, is perfectly compatible with Discrete Four Channel records (CD-4).

Trouble Shooting Hints

Disconnect the power cord and protect the stylus before making investigations

SYMPTOM	CAUSE	REMEDY
Unit fails to start or does not turn.	Packing pieces not removed. No power supply to motor.	Remove all packing pieces. Check that power supply is in order. Check lead connections. If necessary clean and re-align connections. Make certain leads are secure.
	Belt not attached properly.	See Page 12 for proper installation.
Speed consistently fast or slow	Incorrect motor pulley.	Replace with the correct motor pulley for the frequency in your area.
Speed variation—(Wow or flutter)	Warped record when playing a stack. Grease or oil on driving surfaces, belt, etc.	Play singly. Wipe with a clean lint-free cloth.
No Sound	Incorrect or defective cabling. Defective pickup cartridge.	Check cabling instructions Page 8. Have dealer check cartridge.
Low humming sound	Ground lead disconnected.	Check cabling and ground lead connection. See Page 8.
Distorted sound	Worn, damaged or incorrect stylus. Dust on records, or stylus affected by fluff.	Replace stylus if necessary. Check stylus force. Handle and clean records as recommended by the manufacturers. Carefully remove any dust or fluff build-up from around stylus.
Tonearm lowers to incorrect position.	Pickup stylus out of position. Lowering mechanism out of adjustment.	Reset or replace stylus. Adjust lowering position in accordance with instructions, Page 11.
Tonearm lifts too high.	Tonearm lifting height adjustment incorrectly set.	Adjust height in accordance with instructions, Page 12.
Tonearm will not lower to record at any time, or will not track properly.	Stylus force too low.	Adjust settings of counterbalance weight and pickup stylus force in accordance with instructions, Page 7 and 8.
Tonearm will not lower for automatic use after manual play.	Cue control is in "up" position.	Move control back to "down" position.
Tonearm will not rise from its rest.	Arm locked to its rest.	Move locking lever to free tonearm.
Records do not drop.	Auto spindle not properly in place	Check Page 11 for correct installation.





BRITISH INDUSTRIES COMPANY, Westbury, N.Y. 11590 U.S.A. Division of Avnet, Inc.